

Using the Web-based Water Rights Accounting Queries

Idaho Department of Water Resources

Written by Ben Britton
Geographic Information Systems – Internet Mapping
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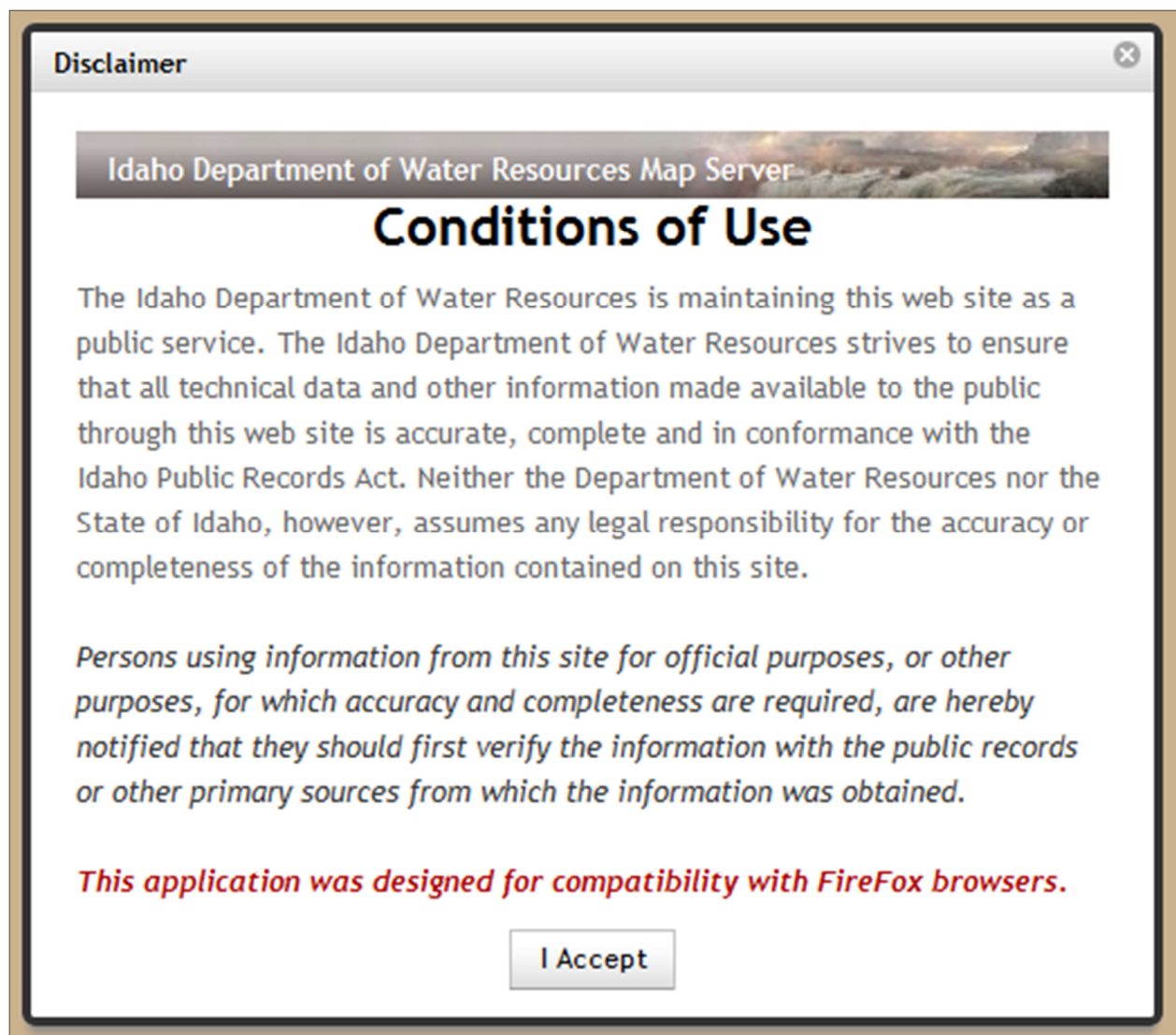
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Conditions of Use

The web-based Water Rights Accounting queries allow you to view, print and download the historical data from the database maintained by the Idaho Department of Water Resources. You have access to the output from the accounting model, as well.

Users of this on-line application are hereby warned that these data are subject to change and not considered the legal representation of those data collected and maintained by the IDWR. The persons who maintain this application are not the scientists, engineers and support staff responsible for providing the data. Clarification of derivation, or verification of correctness, can only be accomplished by contacting personnel of the IDWR. The disclaimer for these data is shown below.



Accessing the Data

The first form available on this web-site is WRA_Select. You will see this form if you access the queries by clicking on a point in the interactive mapping application or by clicking on *Tabular Data* on the *Water Rights Accounting* web-page, <http://www.idwr.idaho.gov/GeographicInfo/accounting.htm>

You may view a tabular report (formatted as a web-page or suitable for print) or a graph for a single site, for a single year. You may download data for multiple years for a single site or multiple sites for a single year.

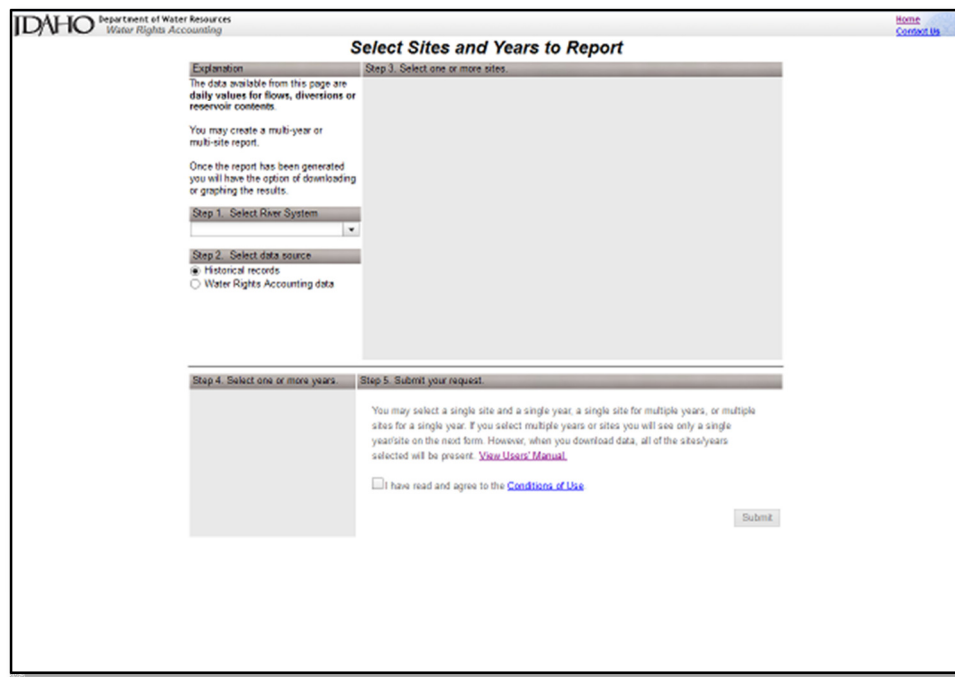
If you submit the request to view a single site, for a single year, the on-screen report will look just like the examples under the heading **WRA_Report – Viewing the Tabular Data** except that there is a drop-down list in the upper, left-hand corner of the form that allows you to select a different data year for the current site.



If you select multiple sites or years, that option is removed so that you cannot change your initial request. This is intended to avoid confusion. When you request more than a single site/year report you will view only the first site/year report.

WRA_Select – Step 1

The WRA_Select form, except for a brief introduction, is blank until you select a river system. This example shows how the list of sites is populated when the *Upper Snake River* system is selected.



WRA_Select – Step 2

Select whether you wish to view/download historical records or accounting data.

WRA_Select – Step 3

You may select a single site by clicking on the table row. If you select multiple sites or years you will only be able to view the tabular report for a single year but you will receive all of the sites/years in the file you download.

To select more than one site, press/hold the Ctrl key (Command key on Apple devices) and click on each row you wish to download.

Select Sites and Years to Report

Explanation

The data available from this page are daily values for flows, diversions or reservoir contents.

You may create a multi-year or multi-site report.

Once the report has been generated you will have the option of downloading or graphing the results.

Step 1. Select River System

Upper Snake River

Step 2. Select data source

☒ Historical records
☐ Water Rights Accounting data

Step 4. Select one or more years:

Step 3. Select one or more sites:

Site ID	Type	Name	# HST Years	# ALC Years
13010500	R	JACKSON LAKE	36	24
13011000	P	SNAKE RIVER NR MORAN WY	36	24
13022500	P	SNAKE RIVER AB RESERVOIR NR ALPINE WY	34	24
13023000	P	GREYS RIVER AS RESERVOIR NR ALPINE WY	34	24
13027000	P	SALT RIVER AS RESERVOIR NR ETNA WY	34	24
13032400	R	PALEACRES RESERVOIR NEAR BEND	36	24
13032500	P	SNAKE RIVER NR RIVIERA ID	36	24
13032510	P	P BYRD PUMP	36	24
13032515	P	BOY SCOUT CAMP PUMP	24	12
13032520	P	A ROSTAD PUMP	24	14
13032620	P	R ROSE PUMP	20	10
13033010	D	PALEACRES CANAL	24	22
13033643	P	W FLEMING PUMP	33	10
13033650	P	NERT OGDEN PUMP	25	10
13033660	P	LYNN OGDEN PUMP	0	0
13033690	P	T LOTT #2 PUMP	25	0

Step 5. Submit your request:

You may select a single site and a single year, a single site for multiple years, or multiple sites for a single year. If you select multiple years or sites you will see only a single year/site on the next form. However, when you download data, all of the sites/years selected will be present. [View User Manual](#)

☐ I have read and agree to the [Conditions of Use](#)

Submit

WRA_Select – Step 4

Select the year or years you wish to view/download, in the same manner as you did when you selected the sites.

This example shows how the list of years is populated with those available when the *Palisades Canal* is selected.

Select Sites and Years to Report

Explanation

The data available from this page are daily values for flows, diversions or reservoir contents.

You may create a multi-year or multi-site report.

Once the report has been generated you will have the option of downloading or graphing the results.

Step 1. Select River System

Upper Snake River

Step 2. Select data source

☒ Historical records
☐ Water Rights Accounting data

Step 3. Select one or more sites.

Site ID	Type	Name	# HST Years	# ALC Years
13010500	R	JACKSON LAKE	36	24
13011000	F	SNAKE RIVER NR MORAN WY	36	24
13022500	F	SNAKE RIVER AB RESERVOIR NR ALPINE WY	34	24
13023000	F	GREYS RIVER AB RESERVOIR NR ALPINE WY	34	24
13027500	F	SALT RIVER AB RESERVOIR NR ETNA WY	34	24
13032450	R	PALISADES RESERVOIR NEAR IRWIN	36	24
13032500	F	SNAKE RIVER NR IRWIN ID	36	24
13032510	P	P BYRD PUMP	26	24
13032515	P	BOY SCOUT CAMP PUMP	24	12
13032520	P	A ROSTAD PUMP	24	14
13032920	P	R ROSE PUMP	20	19
13033010	D	PALISADES CANAL	24	22
13033643	P	W FLEMING PUMP	33	16
13033650	P	MERT OGDEN PUMP	25	19
13033660	P	LYNN DIXON PUMP	9	9
13033690	P	T LOTT #2 PUMP	25	0

Step 4. Select one or more years.

Year

2012

2011

2010

2009

2008

2007

2006

2005

Step 5. Submit your request.

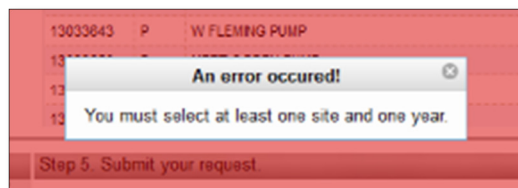
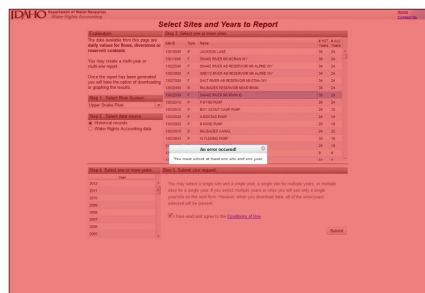
You may select a single site and a single year, a single site for multiple years, or multiple sites for a single year. If you select multiple years or sites you will see only a single year/site on the next form. However, when you download data, all of the sites/years selected will be present. [View Users' Manual.](#)

☐ I have read and agree to the [Conditions of Use.](#)

Submit

WRA_Select – Step 5

Click the *Submit* button after you have selected the site(s) and year(s) you wish to view or download. If you click the *Submit* button before you have selected at least one site and one year, you will get an error message.



The *Submit* button will not be enabled – indicated by the red-slash symbol, instead of a cursor – until you place a check in the box to indicate you have read and agree to the **Conditions of Use**.

☐ I have read and agree to the [Conditions of Use](#).



Select Sites and Years to Report

Explanation

The data available from this page are **daily values for flows, diversions or reservoir contents**.

You may create a multi-year or multi-site report.

Once the report has been generated you will have the option of downloading or graphing the results.

Step 1. Select River System

Upper Snake River

Step 2. Select data source

☒ Historical records
☐ Water Rights Accounting data

Site ID	Type	Name	# HST Years	# ALC Years
13010500	R	JACKSON LAKE	36	24
13011000	F	SNAKE RIVER NR MORAN WY	36	24
13022500	F	SNAKE RIVER AB RESERVOIR NR ALPINE WY	34	24
13023000	F	GREYS RIVER AB RESERVOIR NR ALPINE WY	34	24
13027500	F	SALT RIVER AB RESERVOIR NR ETNA WY	34	24
13032450	R	PALISADES RESERVOIR NEAR IRWIN	36	24
13032500	F	SNAKE RIVER NR IRWIN ID	36	24
13032510	P	P BYRD PUMP	26	24
13032515	P	BOY SCOUT CAMP PUMP	24	12
13032520	P	A ROSTAD PUMP	24	14
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13033643	P	W FLEMING PUMP	33	16
13033650	P	MERT OGDEN PUMP	25	19
13033660	P	LYNN DIXON PUMP	9	9
13033690	P	T LOTT #2 PUMP	25	0

Step 4. Select one or more years.


Year

2012
2011
2010
2009
2008
2007
2006
2005

Step 5. Submit your request.

You may select a single site and a single year, a single site for multiple years, or multiple sites for a single year. If you select multiple years or sites you will see only a single year/site on the next form. However, when you download data, all of the sites/years selected will be present. [View Users' Manual](#).

☒ I have read and agree to the [Conditions of Use](#).



Once you click the *Submit* button a new form, **WRA_Report**, will open in new tab or window. If you wish to compare several years' data for a single site (or several sites for a single year) you will be able to do so by selecting different site/year combinations and clicking *Submit*. Each of those reports will open in a separate tab or window. If you select multiple years for a site (or multiple sites for a year) the new form will display only one site/year combination, with no way to change it.

WRA_Report – Viewing the Tabular Data

If you select a single site for a single year, the report-form will have a drop-down list which will enable you to select another year for this site. This was documented in the section entitled **Accessing the Data**.

IDAHO Department of Water Resources
Water Rights Accounting

Select Year: 2012
 Site ID: 130333
 Diversion name:
 DAY: 2012

Select Calendar Type: ▼

The data for the selected year are provisional and subject to change!

Irrigation Year: November 2010 To October 2011
 Daily mean values for discharge in cubic feet per second

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0	0	0	0	0	32.91	44.81	52.42	33.34	28.53
2	0	0	0	0	0	34.99	43.68	50.6	34.16	28.41
3	0	0	0	0	0	34.29	44.08	49.6	35.69	28.29
4	0	0	0	0	0	34.29	42.21	48.61	37.05	28.81
5	0	0	0	0	0	35.69	52	48.41	37	28.69
6	0	0	0	0	0	36.4	59.09	45.87	35.52	29.22
7	0	0	0	0	0	31.55	58.85	44.9	35.46	28.44
8	0	0	0	0	0	25.72	58.62	43.95	34.71	20.97
9	0	0	0	0	0	26.98	58.39	43	33.96	13.89
10	0	0	0	0	0	22.08	58.16	42.81	33.9	13.3
11	0	0	0	0	1.26	22.08	57.93	41.87	33.85	13.21
12	0	0	0	0	2.4	25.1	57.7	40.94	33.1	13.12
13	0	0	0	0	4.76	37.11	56.63	40.75	33.74	12.55
14	0	0	0	0	5.79	44.52	56.4	39.83	32.99	11.98
15	0	0	0	0	7.28	16.49	55.34	38.91	32.94	11.43
16	0	0	0	0	8.08	25.42	54.28	38.73	32.88	11.34
17	0	0	0	0	8.9	32.26	53.24	34.99	32.83	12.19
18	0	0	0	0	10.63	31.27	53.01	37.11	32.1	12.1
19	0	0	0	0	11.54	29.62	53.61	38.69	32.04	11.54
20	0	0	0	0	12.48	26.74	54.21	38.82	31.31	11.08
21	0	0	0	0	12.48	27.07	53.98	37.51	31.26	11.08
22	0	0	0	0	12.48	30.66	52.94	36.93	30.54	11.08
23	0	0	0	0	12.48	31.01	51.9	36.35	30.48	11.08
24	0	0	0	0	12.48	28.72	50.88	36.49	29.77	11.08
25	0	0	0	0	12.48	27.77	50.66	35.91	29.06	5.44
26	0	0	0	0	12.01	26.83	51.24	35.34	29.01	0.29
27	0	0	0	0	12.96	25.27	51.83	35.47	28.96	0.1
28	0	0	0	0	22.67	32.1	51.61	35.6	28.91	0
29	0	0	0	0	32.91	40.26	51.41	35.03	28.78	0
30	0	0	0	0	32.23	44.41	51.21	34.46	29.31	0
31	0	0	0	0	30.88	...	51	33.9	...	0
TOTAL	...	...	...	0.00	279.18	919.61	1640.90	1253.80	974.65	419.24
MEAN	...	...	...	0.0	9.0	31	53	40	32	14
MAX	...	...	...	0	32.91	44.52	59.09	52.42	37.05	29.22
MIN	...	...	...	0	0	16.49	42.21	33.9	26.70	0
AC-FT	...	...	...	0.0	554	1824	3255	2487	1933	832

IRRIGATION YEAR 2011 TOTAL 5487 MEAN 30 AC-FT 10884

Print
Create Graph

Questions about these data will be answered by the [Hydrology Section](#)
 Idaho Department of Water Resources
 322 E. Front Street
 Boise, Idaho 83720-0098
 Telephone: (208) 287-4800 FAX: (208) 287-6700

Download XML
Download CSV

Or select table and press Ctrl-C or Command-C to copy

If you select multiple sites or multiple years, the drop-down list will not be present because that would change the query executed on the previous form back to a query for a single site/year combination. Then when you downloaded the data you would get only a single year.

From this form, you may download the selected data in XML or CSV formats. If you wish to just cut-and-paste the tabular data into a spreadsheet or document you can do so as instructed.

T 10884

Download data for years/sites specified in URL, in comma-separated variable format. Alternatively, you can select the table with your cursor and press Ctrl-C or Command-C to copy a portion of the data.

Download CSV

Or select table and press Ctrl-C or Command-C to copy

WRA_Report – Copying the Tabular Data

Copy the data by selecting the entire dataset and using the key-sequence required by your device – this is Ctrl-C on Windows and Linux platforms or Command-C on Apple OSX platforms. This key-sequence varies on iOS, Android and other phone/tablet devices. Past the data into the spreadsheet or document of your choice.

The data for the selected year are provisional and subject to change!

Site ID 13033010
Division name: PALISADES CANAL
Irrigation Year: November 2010 To October 2011
Daily mean values for discharge in cubic feet per second

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0	0	0	0	0	0	0	32.91	44.81	52.42	33.34	25.53
2	0	0	0	0	0	0	0	34.99	43.65	50.6	34.16	25.41
3	0	0	0	0	0	0	0	34.29	44.05	49.6	35.69	25.29
4	0	0	0	0	0	0	0	34.29	42.21	45.61	37.05	25.81
5	0	0	0	0	0	0	0	35.09	32	45.41	37	25.09
6	0	0	0	0	0	0	0	36.4	59.09	45.87	35.52	29.22
7	0	0	0	0	0	0	0	31.55	58.85	44.9	35.46	28.44
8	0	0	0	0	0	0	0	25.72	58.62	43.55	34.71	20.97
9	0	0	0	0	0	0	0	26.98	58.39	43	33.96	13.89
10	0	0	0	0	0	0	0	22.08	58.16	42.81	33.9	13.3
11	0	0	0	0	0	0	1.26	22.08	57.93	41.87	33.85	13.21
12	0	0	0	0	0	0	2.4	25.1	57.7	40.94	33.1	13.12
13	0	0	0	0	0	0	4.76	37.11	56.63	40.75	33.74	12.55
14	0	0	0	0	0	0	5.79	44.52	56.4	39.83	32.99	11.98
15	0	0	0	0	0	0	7.28	16.49	55.34	38.91	32.94	11.43
16	0	0	0	0	0	0	8.08	25.42	54.28	38.73	32.88	11.34
17	0	0	0	0	0	0	8.9	32.26	53.24	34.99	32.83	12.19
18	0	0	0	0	0	0	10.63	31.27	53.01	37.11	32.1	12.1
19	0	0	0	0	0	0	11.54	29.62	53.61	38.69	32.64	11.54
20	0	0	0	0	0	0	12.48	26.74	54.21	38.82	31.31	11.06
21	0	0	0	0	0	0	12.48	27.67	53.98	37.51	31.26	11.08
22	0	0	0	0	0	0	12.48	30.66	52.94	36.93	30.54	11.08
23	0	0	0	0	0	0	12.48	31.61	51.9	36.35	30.48	11.08
24	0	0	0	0	0	0	12.48	28.72	50.88	36.49	29.77	11.08
25	0	0	0	0	0	0	12.48	27.77	50.66	35.91	29.06	5.44
26	0	0	0	0	0	0	12.01	26.83	51.24	35.34	29.01	0.29
27	0	0	0	0	0	0	12.96	25.27	51.83	35.47	28.96	6.1
28	0	0	0	0	0	0	22.67	32.1	51.61	35.6	28.91	0
29	0	0	0	0	0	0	32.91	40.26	51.41	35.03	28.78	0
30	0	0	0	0	0	0	32.23	44.41	51.21	34.46	29.31	0
31	0	0	0	0	0	0	30.88	--	51	33.9	--	0
TOTAL	0	0	0	0	0	0	279.18	919.61	1040.9	1253.8	974.65	419.24
MEAN	0	0	0	0	0	0	9	31	53	40	32	14
MAX	0	0	0	0	0	0	27.91	44.52	59.09	52.42	37.05	29.22

Print
Create Graph

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Download XML
Download CSV

Or select table and press Ctrl-C or Command-C to copy

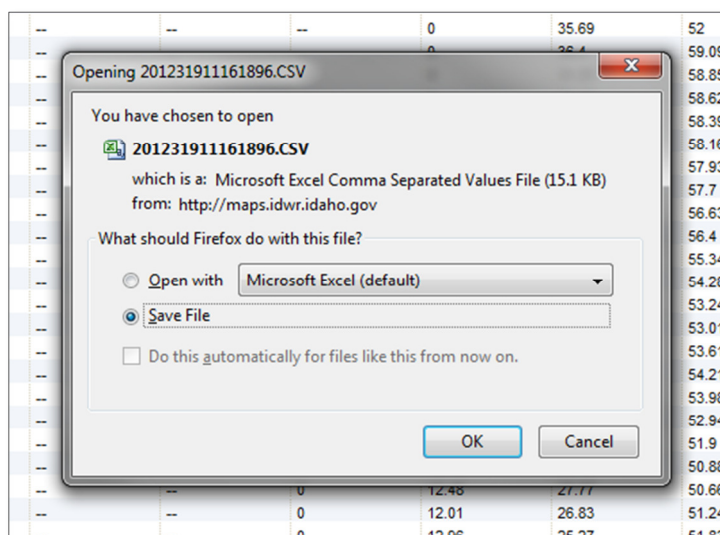
Note: if your screen resolution does not allow you to view all of the years and summary at the bottom of the page, it may be necessary to select text at the bottom of the page and then delete it from your spreadsheet. Here is an example of what the data looks like when pasted into Excel.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
2													
3	1	--	--	--	--	--	--	0	32.91	44.81	52.42	33.34	25.53
4	2	--	--	--	--	--	--	0	34.99	43.65	50.6	34.16	25.41
5	3	--	--	--	--	--	--	0	34.29	44.05	49.6	35.69	25.29
6	4	--	--	--	--	--	--	0	34.29	42.21	45.61	37.05	25.81
7	5	--	--	--	--	--	--	0	35.09	32	45.41	37	25.09
8	6	--	--	--	--	--	--	0	36.4	59.09	45.87	35.52	29.22
9	7	--	--	--	--	--	--	0	31.55	58.85	44.9	35.46	28.44
10	8	--	--	--	--	--	--	0	25.72	58.62	43.55	34.71	20.97
11	9	--	--	--	--	--	--	0	26.98	58.39	43	33.96	13.89
12	10	--	--	--	--	--	--	0	22.08	58.16	42.81	33.9	13.3
13	11	--	--	--	--	--	--	1.26	22.08	57.93	41.87	33.85	13.21
14	12	--	--	--	--	--	--	2.4	25.1	57.7	40.94	33.1	13.12
15	13	--	--	--	--	--	--	4.76	37.11	56.63	40.75	33.74	12.55
16	14	--	--	--	--	--	--	5.79	44.52	56.4	39.83	32.99	11.98
17	15	--	--	--	--	--	--	7.28	16.49	55.34	38.91	32.94	11.43
18	16	--	--	--	--	--	--	8.08	25.42	54.28	38.73	32.88	11.34
19	17	--	--	--	--	--	--	8.9	32.26	53.24	34.99	32.83	12.19
20	18	--	--	--	--	--	--	10.63	31.27	53.01	37.11	32.1	12.1
21	19	--	--	--	--	--	--	11.54	29.62	53.61	38.69	32.64	11.54
22	20	--	--	--	--	--	--	12.48	26.74	54.21	38.82	31.31	11.06
23	21	--	--	--	--	--	--	12.48	27.67	53.98	37.51	31.26	11.08
24	22	--	--	--	--	--	--	0	12.48	30.66	52.94	36.93	30.54
25	23	--	--	--	--	--	--	0	12.48	31.61	51.9	36.35	30.48
26	24	--	--	--	--	--	--	0	12.48	28.72	50.88	36.49	29.77
27	25	--	--	--	--	--	--	0	12.48	27.77	50.66	35.91	29.06
28	26	--	--	--	--	--	--	0	12.01	26.83	51.24	35.34	29.01
29	27	--	--	--	--	--	--	0	12.96	25.27	51.83	35.47	28.96
30	28	--	--	--	--	--	--	0	22.67	32.1	51.61	35.6	28.91
31	29	--	--	--	--	--	--	0	32.91	40.26	51.41	35.03	28.78
32	30	--	--	--	--	--	--	0	32.23	44.41	51.21	34.46	29.31
33	31	--	--	--	--	--	--	0	30.88	--	51	33.9	--
34													
35	TOTAL	--	--	--	--	--	--	0	279.18	919.61	1040.9	1253.8	974.65
36	MEAN	--	--	--	--	--	--	0	9	31	53	40	32
37	MAX	--	--	--	--	--	--	0	27.91	44.52	59.09	52.42	37.05

WRA_Report – Downloading the Tabular Data

When you click on the *Download CSV* button, for example, you will see dialog asking if you wish to open or save the downloaded data.

The data in the downloaded file will be organized differently than it is in the tabular report on the web-page.



	A	B	C
182	13033010	10/19/2011	11.54
183	13033010	10/20/2011	11.08
184	13033010	10/21/2011	11.08
185	13033010	10/22/2011	11.08
186	13033010	10/23/2011	11.08
187	13033010	10/24/2011	11.08
188	13033010	10/25/2011	5.44
189	13033010	10/26/2011	0.29
190	13033010	10/27/2011	0.1
191	13033010	10/28/2011	0
192	13033010	10/29/2011	0
193	13033010	10/30/2011	0
194	13033010	10/31/2011	0
195	13033010	11/1/2009	0
196	13033010	4/1/2010	0
197	13033010	4/2/2010	0

If you save the file and open it in a spreadsheet, you will see something similar to the figure on the left.

This example shows a download of historical data for Palisades Canal, for the 2010 and 2011 water years. Notice the break in the date-column between rows 194 and 195.

Each row represented in the XML or CSV file contains one or more variables for a single site, for a single day.

The column headings for history data are *Site*, *Date* and *Value*.

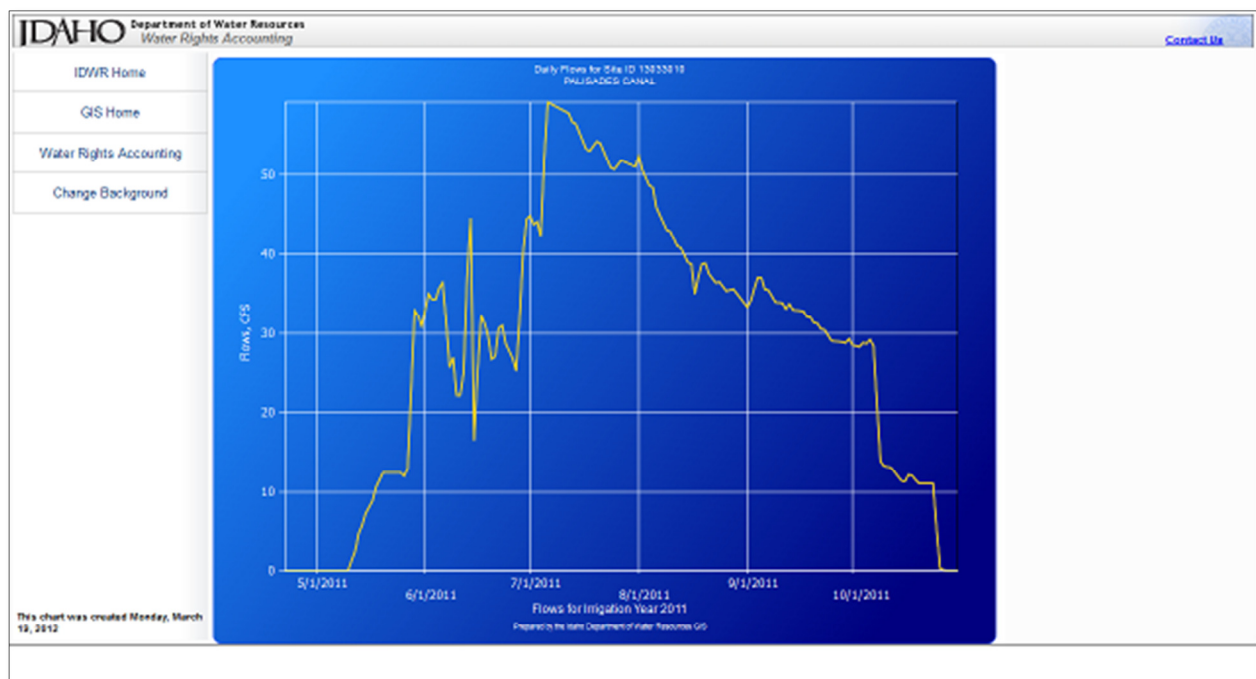
Column Represented in Accounting Data

The column headings for accounting data vary, depending on the type of site downloaded – different data are stored for diversions, flows and reservoirs, for example. Each row in the accounting data for *Palisades Canal* will contain variables V1-V5, with titles as shown...*Daily Actual Diversion (CFS)*, *Daily Storage Diversion (CFS)*, etc.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Site	Date	V1	V1Title	V2	V2Title	V3	V3Title	V4	V4Title	V5	V5Title
2	13033010	11/1/2009	0	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	0	TOTAL AF DIVERTED_ACRE FT
3	13033010	11/1/2009	0	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	0	TOTAL AF DIVERTED_ACRE FT
240	13033010	6/27/2010	36.6	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	73	TOTAL AF DIVERTED_ACRE FT
241	13033010	6/28/2010	38.1	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	148	TOTAL AF DIVERTED_ACRE FT
242	13033010	6/29/2010	38.9	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	226	TOTAL AF DIVERTED_ACRE FT
243	13033010	6/30/2010	39.0	DAILY ACTUAL DIVERSION_CFS	0	DAILY STORAGE DIVERSION_CFS	0	STORAGE	0	REMAINING STORAGE_ACRE FT	303	TOTAL AF DIVERTED_ACRE FT

WRA_Graph – Creating a Graph of the Tabular Data

Click the *Create Graph* button, on the *WRA_Report* form, to graph the values for a single site/year combination.



WRA_Print - Printing the Tabular Data

Click the *Print* button, on the *WRA_Report* form, to print the values for a single site/year combination.

The data for the selected year are provisional and subject to change!

19-MAR-2011

13039010 PALISADES CANAL											
DAILY MEAN VALUES FOR DISCHARGE IN CUBIC FEET PER SECOND, IRRIGATION YEAR, NOVEMBER 2010 TO OCTOBER 2011											
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	--	--	--	--	0	32.91	44.81	52.42	33.34
2	--	--	--	--	--	--	0	34.99	43.68	50.6	34.16
3	--	--	--	--	--	--	0	34.29	44.08	49.6	35.69
4	--	--	--	--	--	--	0	34.29	42.21	48.61	37.05
5	--	--	--	--	--	--	0	35.69	52	48.41	37
6	--	--	--	--	--	--	0	36.4	59.09	45.87	35.52
7	--	--	--	--	--	--	0	31.55	58.85	44.9	35.46
8	--	--	--	--	--	--	0	25.72	58.62	43.95	34.71
9	--	--	--	--	--	--	0	26.98	58.39	43	33.96
10	--	--	--	--	--	--	0	22.08	58.16	42.81	33.9
11	--	--	--	--	--	--	1.26	22.08	57.93	41.87	33.85
12	--	--	--	--	--	--	2.4	25.1	57.7	40.94	33.1
13	--	--	--	--	--	--	4.76	37.11	56.63	40.75	33.74
14	--	--	--	--	--	--	5.79	44.52	56.4	39.83	32.99
15	--	--	--	--	--	--	7.28	16.49	55.34	38.91	32.94
16	--	--	--	--	--	--	8.08	25.42	54.28	38.73	32.88
17	--	--	--	--	--	--	8.9	32.26	53.24	34.99	32.83
18	--	--	--	--	--	--	10.63	31.27	53.01	37.11	32.1
19	--	--	--	--	--	--	11.54	29.62	53.61	38.69	32.04
20	--	--	--	--	--	--	12.48	26.74	54.21	38.82	31.31
21	--	--	--	--	--	--	12.48	27.07	53.98	37.51	31.26
22	--	--	--	--	--	0	12.48	30.66	52.94	36.93	30.54
23	--	--	--	--	--	0	12.48	31.01	51.9	36.35	30.48
24	--	--	--	--	--	0	12.48	28.72	50.88	36.49	29.77
25	--	--	--	--	--	0	12.48	27.77	50.66	35.91	29.06
26	--	--	--	--	--	0	12.01	26.83	51.24	35.34	29.01
27	--	--	--	--	--	0	12.96	25.27	51.83	35.47	28.96
28	--	--	--	--	--	0	22.67	32.1	51.61	35.6	28.91
29	--	--	--	--	--	0	32.91	40.26	51.41	35.03	28.78
30	--	--	--	--	--	0	32.23	44.41	51.21	34.46	29.31
31	--	--	--	--	--	--	30.88	--	51	33.9	--
TOTAL	--	--	--	--	--	0.00	279.18	919.61	1640.90	1253.80	974.65
MEAN	--	--	--	--	--	0.0	9.0	31	53	40	32
MAX	--	--	--	--	--	0	32.91	44.62	59.09	52.42	37.05
MIN	--	--	--	--	--	0	0	16.49	42.21	33.9	28.78
AC-FT	--	--	--	--	--	0.0	554	1824	3255	2487	1933